

EMERGENCY RESPONSE REPORT

FOR

WILLIAMS OLEFINS PLANT EXPLOSION
5205 LOUISIANA HIGHWAY 3115
GEISMAR, ASCENSION AND IBERVILLE PARISHES, LOUISIANA

Prepared for

U.S. Environmental Protection Agency Region 6

Linda Carter, Project Officer
1445 Ross Avenue
Dallas, Texas 75202

Contract No. EP-W-06-042
Technical Direction Document No. 1/WESTON-042-13-020
WESTON Work Order No. 20406.012.001.0820.01
NRC No. 1050286
CERCLIS No. N/A
FPN: No. N/A
EPA OSC: John Martin
START-3 PTL: Robert Sherman

Prepared by

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27 August 2013

PROJECT SUMMARY

This final report describes the U.S. Environmental Protection Agency (EPA) response actions at the Williams Olefins LLC (Williams) explosion and fire. The site is located at 5205 Louisiana Highway 3115 in Geismar, Ascension and Iberville Parishes, Louisiana. The detailed report follows this page, and all attachments are provided as separate portable document format (PDF) files.

On 13 June 2013, the National Response Center (NRC) generated a report (NRC No. 1050286) from a news media report of an explosion at approximately 0830 hours and subsequent fire at the Williams Olefins facility. The NRC notified the EPA Region 6 Prevention and Response Branch (EPA-PRB) of the incident, and at approximately 1026 hours on 13 June 2013, EPA-PRB notified Weston Solutions, Inc. (WESTON®), the EPA Region 6 Superfund Technical Assessment and Response Team (START-3) contractor, to initiate a Tier 2 Response. The EPA team conducted perimeter air monitoring to determine the off-site impacts of the explosion and fire to human health and the environment; documented Williams response activities; performed an assessment of the containment efforts associated with fire suppression water; and attended response briefings conducted by Williams.

The Louisiana State Police (LSP) served as lead response coordinator for the State during the incident. Following review of response activities, air monitoring results, water containment procedures, and proposed work plans, EPA demobilized from the site at 1100 hours on 14 June 2013. LSP and Louisiana Department of Environmental Quality (LDEQ) remained on-site to coordinate ongoing recovery activities and demobilized the afternoon of 14 June 2013 after response activities were completed.

This final report was prepared by Weston Solutions, Inc. under Contract No. EP-W-06-042 for EPA Region 6. The EPA OSC was John Martin, and the START-3 Project Team Leader (PTL) was Robert Sherman.

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The EPA Task Monitor did not provide final approval of this report prior to the completion date of the work assignment. Therefore, Weston Solutions, Inc. has submitted this report absent the Task Monitor's approval.

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The EPA Task Monitor has provided final approval of this report. Therefore, Weston Solutions, Inc. has submitted this report with the Task Monitor's approval.

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PROJECT SUMMARY

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1. INTRODUCTION

At approximately 1103 hours on 13 June 2013, the National Response Center (NRC) generated a report (NRC No. 1050286) from a news media report of an explosion and subsequent fire at the Williams Olefins LLC (Williams) facility in Geismar, Ascension and Iberville Parishes, Louisiana. A Williams representative later reported that propylene, ethylene, and butadiene were released into the atmosphere as a result of the explosion that occurred at 0837 hours. The NRC notified EPA Region 6 Prevention and Response Branch (EPA-PRB) of the incident. The EPA-PRB was previously notified by the Louisiana Department of Environmental Quality (LDEQ) of the explosion, and at approximately 1026 hours on 13 June 2013, notified Weston Solutions, Inc. (WESTON), the EPA Region 6 Superfund Technical Assessment and Response Team (START-3) contractor, to initiate a Tier 2 Response. Geographic coordinates of the incident location were determined by START-3 members using geographic information system (GIS) software based on the World Geodetic System – 1984 (WGS-84).

2. BACKGROUND

The Williams facility annually produces approximately 1.3 billion pounds of ethylene and 90 million pounds of polymer-grade propylene; the facility is located at 5205 Louisiana Highway 3115 in Geismar, Ascension and Iberville Parishes, Louisiana (Attachments A and B). The facility is situated across the border of Ascension and Iberville Parishes and within an industrial area. It is bordered by industrial facilities to the north, south, and east, and vacant wooded land to the west. On 13 June 2013, Williams officials reported to the LDEQ that an explosion and fire had occurred due to the failure of a reboiler in the propylene fractionator area of the plant. The explosion resulted in a release of propylene, ethylene, and butadiene. LSP responded to the scene to coordinate response activities. The City of Gonzales Fire Department also responded to the fire and began fighting the fire with water cannons. Other responders included the LDEQ, the Ascension Parish Sheriff's Office, the Iberville Parish Sheriff's Office, the Ascension Parish Office of Emergency Preparedness, the Iberville Parish Office of Emergency Preparedness, Occupational Safety and Health Administration (OSHA), and Williams representatives. At the

time of the fire, the wind direction was light and variable from the southwest, resulting in the smoke plume travelling northeast.

3. ACTIONS TAKEN

3.1 Mobilization

At 1115 hours on 13 June 2013, the EPA team mobilized to the site. The EPA team was tasked to collect facts regarding the release; analyze the potential impact on human health and the environment; and observe and document federal, state, and private actions taken to conduct the response action. EPA met with LSP, LDEQ, the Gonzales Fire Department, the Ascension Parish Sheriff's Office, the Iberville Parish Sheriff's Office, the Ascension Parish Office of Emergency Preparedness, the Iberville Parish Office of Emergency Preparedness, and Williams representatives to obtain an update of response activities. EPA OSC John Martin arrived on-site at 1330 hours on 13 June 2013.

3.2 Response Operations

LSP had closed LA Highway 30 from LA Highway 73 to LA Highway 74 and LA Highway 3115 from River Road to LA Highway 74 by 1030 hours. LSP had also issued a shelter-in-place order for a 2-mile radius around the facility. The order was issued immediately following the explosion and lifted at approximately 1330 hours on 13 June 2013. A facility shelter-in-place order remained in effect for Williams and four additional facilities in the area. The facility shelter-in-place order was lifted at approximately 1800 hours on 13 June 2013. LDEQ representatives set up perimeter air monitoring stations and conducted initial and hourly air monitoring using Portasens II instruments. No air monitoring results above background levels were reported.

At 1203 hours on 13 June 2013, LSP and Williams representatives provided a situation update reporting that smoke was coming out of a flare stack. Their assessment was that although the lines routed to the propylene fractionator had been closed, there was residual propylene within the lines that was being routed to the flare stack. The residual material would normally have been incinerated in the flare; however, due to the lack of electricity to the flare stack, Williams

was unable to force air into the flare, creating a higher temperature and more complete combustion of the materials. At this time, the explosion was thought to have occurred in the reboiler area and one fatality had been reported. LSP requested EPA to coordinate with LDEQ to continue perimeter air monitoring.

At 1233 hours, the EPA team met with Brandon Lithgoe, a Williams Environmental Department representative, who reported that material within the lines continued flowing to the flare, but there was no electrical power to control the feed line and flame. Mr. Lithgoe also reported that the stormwater system was overwhelmed and firefighting water was flowing off-site. At 1315 hours, pH measurements taken at a roadside ditch at the LA Hwy 3115 and LA Hwy 30 intersection indicated pH levels between 5 and 6. Williams representative Doug Badon stated that runoff water includes cooling water from the Mississippi River used in the fractionation process, but Williams believed the cooling water lines had been closed at that time. There was no asbestos remaining at the facility, and Williams reported that no material had been blown outside the fence line as a result of the explosion. Chemicals on-site at the time of the explosion were propylene, ethylene, butadiene, and chlorine. The chlorine is associated with the cooling tower and was stored away from the fire and explosion in an area not impacted by the explosion or fire.

At 1512 hours, LSP Captain Davis reported that the entry team had given the all clear and Williams crews were allowed inside the facility to restore generator power to the plant. At 1615 hours, the EPA team began assisting the LDEQ air monitoring team with mapping the air monitoring locations (Attachment C). The EPA team assumed bihourly air monitoring activities from the LDEQ at approximately 2200 hours.

At a 1700 hours briefing attended by LSP, Williams, OSHA, LDEQ, and EPA representatives, a Williams representative reported that the facility had been isolating all units and processes within the plant including electricity to all breakers. Gas continued to leak out of the damaged valve, and fire monitors (Williams personnel) continued to monitor the leak. An additional leak in the nitrogen pipes near the fire location was also being monitored.

At 2245 hours, EPA representatives assumed air monitoring responsibilities from LDEQ and initiated monitoring activities. No detectable readings were reported throughout the night and through 0526 hours on 14 June 2013.

On 14 June 2013 at 0730 hours, the EPA team attended a status briefing conducted by Williams representatives. During the briefing, it was reported that the consultant contracted by Williams had conducted roving air monitoring for Lower Explosive Limit (LEL) along Louisiana Hwy 3115 and Louisiana Hwy 30. Air samples at fixed sample locations were also collected using SUMMA canisters near residential areas. No exceedances were reported by the Williams contractor during their monitoring for LEL or VOCs or in the samples collected at 2130 hours on 13 June 2013. The only ongoing release at the time of the briefing was from residual propylene volatilizing near the damaged flange. Power was restored to the flare stack and it was burning cleanly. Williams employees and contractors were allowed to return to the facility to retrieve personal belongings and vehicles. Employees were also on-site making repairs and securing equipment. Several train cars containing product were in the process of being moved off-site. LSP ordered Louisiana Hwy 3115 to be reopened and for Williams to continue air monitoring at the site.

3.3 Demobilization and Follow-up

Following review of response activities and proposed work plans, EPA OSC Martin released the EPA team from the site. EPA demobilized from the site at approximately 1100 hours on 14 June 2013, at which time LSP released the site to Williams and advised them to continue air monitoring at the site. LDEQ continued to coordinate air monitoring activities and monitor water discharges until approximately 0900 hours 15 June 2013.

This final report was prepared as part of the requirements of TDD No. 1/WESTON-042-13-020 and serves as documentation of work completed to date.

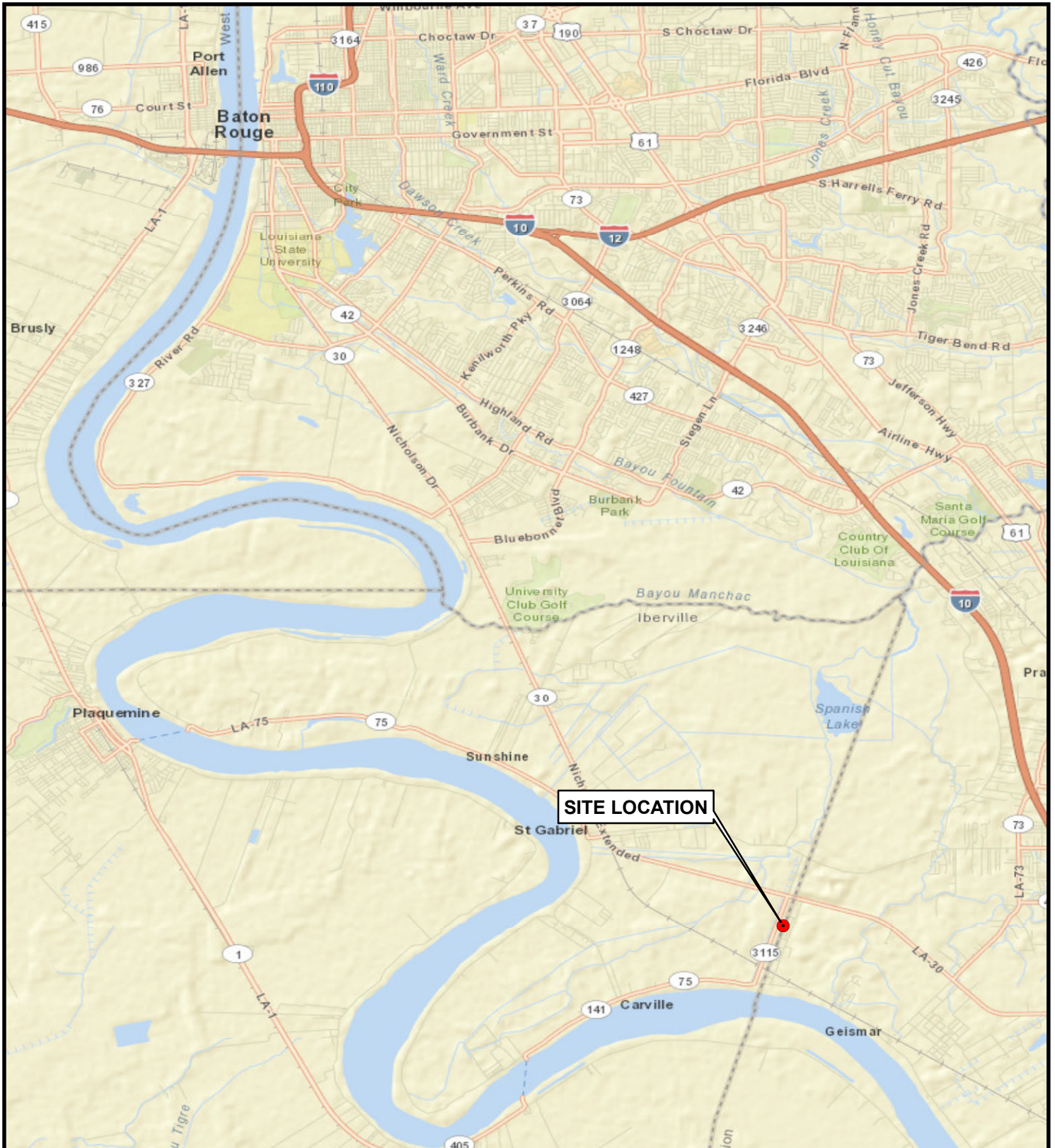
4. LIST OF ATTACHMENTS

A. Site Location Map

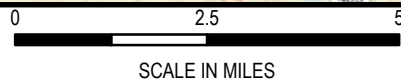
B. Site Area Map

- C. Air Monitoring Locations Map
- D. Digital Photographs
- E. Air Monitoring Documentation
- F. NRC Report No. 1050286
- G. Site Logbook
- H. TDD No. 1/WESTON-042-13-020 and Amendments

ATTACHMENT A
SITE LOCATION MAP



SITE LOCATION



LEGEND

● SITE LOCATION



US EPA REGION 6

ATTACHMENT A
SITE LOCATION MAP
 WILLIAMS OLEFINS PLANT EXPLOSION
 5205 HIGHWAY 3115
 GEISMAR, ASCENSION AND IBERVILLE
 PARISHES, LOUISIANA

SOURCE: WORLD STREET MAP, ESRI
 TDD NO: 1/WESTON-042-13-020
 NRC NO: 1050286

DATE	PROJECT NO	SCALE
AUGUST, 2013	20406.012.001.0820.01	AS SHOWN

ATTACHMENT B
SITE AREA MAP



0 1,000 2,000

SCALE IN FEET

LEGEND

● SITE LOCATION



US EPA REGION 6

ATTACHMENT B

SITE AREA MAP

WILLIAMS OLEFINS PLANT EXPLOSION
5205 HIGHWAY 3115
GEISMAR, ASCENSION AND IBERVILLE
PARISHES, LOUISIANA

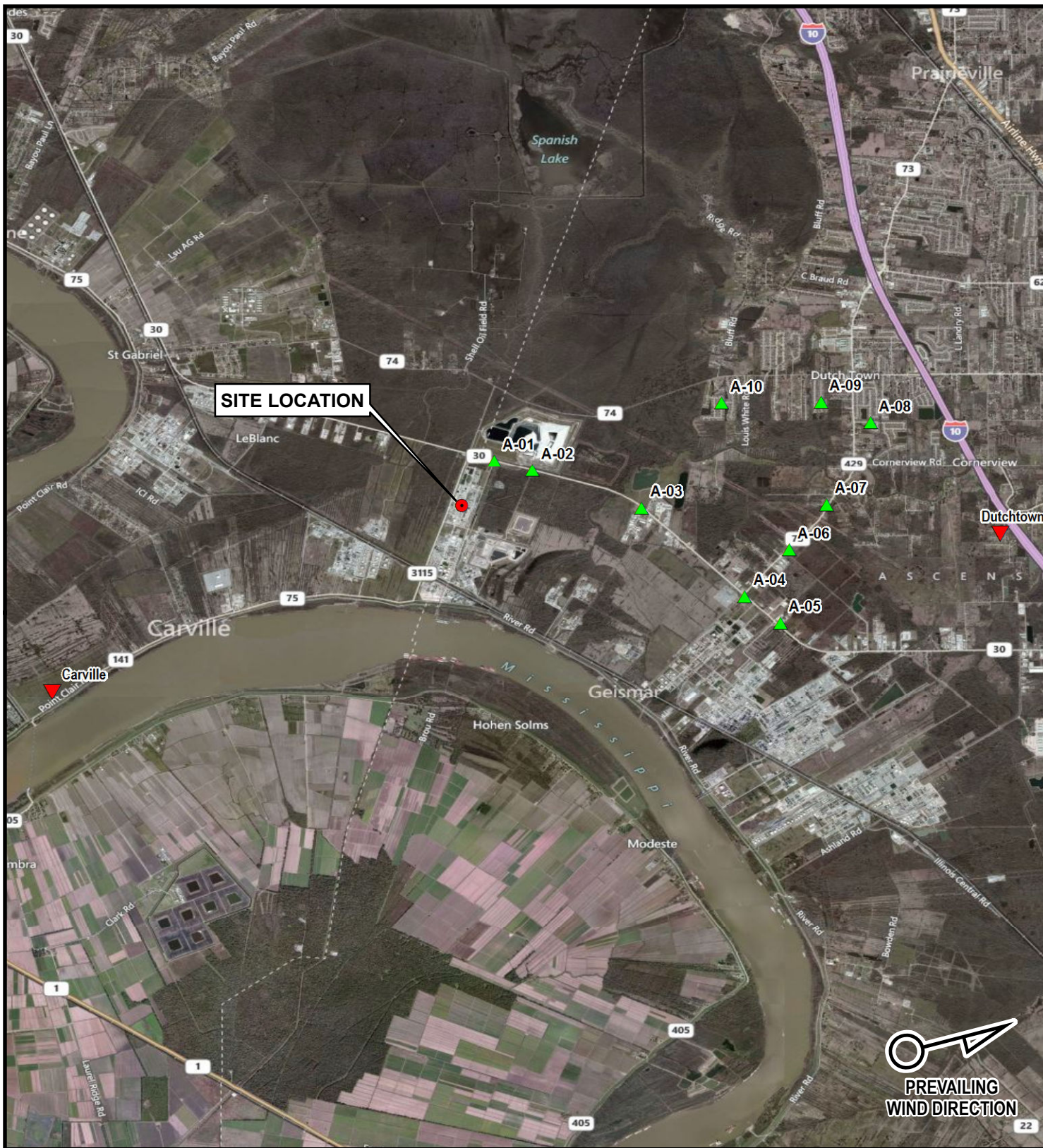
SOURCE: BING MAPS HYBRID
TDD NO: 1/WESTON-042-13-020
NRC NO: 1050286

DATE
AUGUST, 2013

PROJECT NO
20406.012.001.0820.01

SCALE
AS SHOWN

ATTACHMENT C
AIR MONITORING LOCATIONS MAP



LEGEND

- SITE LOCATION
- ▲ AIR MONITORING LOCATIONS
- ▼ LDEQ FIXED AIR MONITORING LOCATIONS

SOURCE: BING MAPS HYBRID
TDD NO: 1/WESTON-042-13-020
NRC NO: 1050286



US EPA REGION 6

ATTACHMENT C

AIR MONITORING LOCATION MAP
WILLIAMS OLEFINS PLANT EXPLOSION
5205 HIGHWAY 3115
GEISMAR, ASCENSION AND IBERVILLE
PARISHES, LOUISIANA

DATE
AUGUST, 2013

PROJECT NO
20406.012.001.0820.01

SCALE
AS SHOWN

ATTACHMENT E
AIR MONITORING DOCUMENTATION

US EPA START-3 AIR MONITORING REPORT FORM

DATE: 6/13/13

INCIDENT NAME/DESCRIPTION: Williams Olefins
INCIDENT LOCATION: 5205 LA Hwy 3115, GEISMAR, LA

Equipment Used:
1. MULTI RAE
2. _____
3. _____
4. _____
5. _____

Serial Number:
RFW 23796

Field Monitoring Team:
1. ERIC BAY
2. _____
3. _____
4. _____
5. _____

TIME (24:00)	LOCATION	PARAMETER O ₂ Units	PARAMETER CO Units	PARAMETER H ₂ S Units	PARAMETER LEL Units	PARAMETER VOC Units	OBSERVATIONS DURING MONITORING	INITIALS
2257	A-01	20.9	0	0	2	0		EB
2301	A-02	20.9	0	0	2	0		EB
2303	A-03	20.9	0	0	2	0		EB
2306	A-04	20.9	0	0	2	0		EB
2309	A-05	20.9	0	0	2	0		EB
2312	A-06	20.9	0	0	2	0		EB
2315	A-07	20.9	0	0	2	0		EB
2319	A-08	20.9	0	0	2	0		EB
2323	A-09	20.9	0	0	2	0		EB
2329	A-10	20.9	0	0	2	0		EB

N/A – Not Applicable UNITS: PPM – Parts per Million PPB – Parts per Billion

REMARKS/SUMMARY:

US EPA START-3 AIR MONITORING REPORT FORM

DATE: 6/14/13

INCIDENT NAME/DESCRIPTION: WILLIAMS OLEFINS
INCIDENT LOCATION: 5205 LA Hwy 3115 GEISMAR, LA

Equipment Used:
1. MULTI RAE
2. _____
3. _____
4. _____
5. _____

Serial Number:
GFW23796

Field Monitoring Team:
1. JEFF WRIGHT
2. DAVID BORDELOU
3. _____
4. _____
5. _____

TIME (24:00)	LOCATION	PARAMETER O ₂ Units %	PARAMETER H ₂ S Units PPM	PARAMETER CO Units PPM	PARAMETER LEL Units %	PARAMETER VOC Units PPM	OBSERVATIONS DURING MONITORING	INITIALS
0055	A1	20.9	0	0	0	0		DB/SW
0108	A2	20.9	0	0	0	0		↓
0113	A3	20.9	0	0	0	0		
0118	A4	20.9	0	0	0	0		
0121	A5	20.9	0	0	0	0		
0125	A6	20.9	0	0	0	0		
0130	A7	20.9	0	0	0	0		
0133	A8	20.9	0	0	0	0		
0138	A9	20.9	0	0	0	0		DB/SW
0143	A10	20.9	0	0	0	0		

N/A – Not Applicable

UNITS: PPM – Parts per Million

PPB – Parts per Billion

REMARKS/SUMMARY: WEATHER - 81°F, Wind 0-5 mph From West
Humidity 81% ; Clear

US EPA START-3 AIR MONITORING REPORT FORM

DATE: 6/14/13

INCIDENT NAME/DESCRIPTION: Williams Olefins
INCIDENT LOCATION: 5205 LA Hwy 3115 GEISMAR, LA

Equipment Used:
1. MultiRAE
2. _____
3. _____
4. _____
5. _____

Serial Number:
RFW 23796

Field Monitoring Team:
1. JEFF WRIGHT
2. DAVID BORDOW
3. _____
4. _____
5. _____

TIME (24:00)	LOCATION	PARAMETER O ₂ Units %	PARAMETER H ₂ S Units PPM	PARAMETER CO Units PPM	PARAMETER LEL Units %	PARAMETER VOC Units PPM	OBSERVATIONS DURING MONITORING	INITIALS
0258	A1	20.9	0	0	0	0		JW/PB
0259	A2	20.9	0	0	0	0		
0302	A3	20.9	0	0	0	0		
0305	A4	20.9	0	0	0	0		
0308	A5	20.9	0	0	0	0		
0311	A6	20.9	0	0	0	0		
0313	A7	20.9	0	0	0	0		
0316	A8	20.9	0	0	0	0		
0321	A9	20.9	0	0	0	0		
0326	A10	20.9	0	0	0	0		

N/A – Not Applicable

UNITS: PPM – Parts per Million

PPB – Parts per Billion

REMARKS/SUMMARY: Weather - 77°F, Clear, Wind - West @ 0-5
Humidity 92%

US EPA START-3 AIR MONITORING REPORT FORM

DATE: 6/14/13

INCIDENT NAME/DESCRIPTION: Williams Olefins
INCIDENT LOCATION: 5205 LA Hwy 3115 Greisner, LA

Equipment Used:
1. MudRite
2. _____
3. _____
4. _____
5. _____

Serial Number:
RFW 23796

Field Monitoring Team:
1. David Bordelon
2. Jeff Knight
3. _____
4. _____
5. _____

TIME (24:00)	LOCATION	PARAMETER <u>O₂</u> Units	PARAMETER <u>CO</u> Units	PARAMETER <u>H₂S</u> Units	PARAMETER <u>LC₂</u> Units	PARAMETER <u>VOC</u> Units	OBSERVATIONS DURING MONITORING	INITIALS
0455	A-01	20.9	0	0	0	0		DB
0458	A-02	20.9	0	0	0	0		DB
0502	A-03	20.9	0	0	0	0		DB
0506	A-04	20.9	0	0	0	0		DB
0508	A-05	20.9	0	0	0	0		DB
512	A-06	20.9	0	0	0	0		DB
513	A-07	20.9	0	0	0	0		DB
515	A-08	20.9	0	0	0	0		DB
521	A-09	20.9	0	0	0	0		DB
526	A-10	20.9	0	0	0	0		DB

N/A - Not Applicable

UNITS: PPM - Parts per Million

PPB - Parts per Billion

REMARKS/SUMMARY: Weather - 78°F, Clear, Wind From West @ 4 mph
90% Humidity ; Pressure 29.95.

ATTACHMENT F

NRC REPORT NO. 1050286

NATIONAL RESPONSE CENTER 1-800-424-8802

*** For Public Use ***

Information released to a third party shall comply with any applicable federal and/or state Freedom of Information and Privacy Laws

Incident Report # 1050286

INCIDENT DESCRIPTION

*Report taken at 11:03 on 13-JUN-13

Incident Type: FIXED

Incident Cause: EXPLOSION

Affected Area:

The incident was discovered on 13-JUN-13 at 08:30 local time.

Affected Medium: UNKNOWN

SUSPECTED RESPONSIBLE PARTY

XX

Type of Organization: UNKNOWN

INCIDENT LOCATION

WILLIAMS OLEFINS CHEMICAL PLANT County: ASCENSION

City: GEISMAR State: LA

APPROXIMATELY 30 MILES SOUTHEAST OF BATON ROUGE, LOUISIANA.

RELEASED MATERIAL(S)

CHRIS Code: UNK Official Material Name: UNKNOWN MATERIAL

Also Known As:

Qty Released: 0 UNKNOWN AMOUNT

DESCRIPTION OF INCIDENT

AN EXPLOSION HAPPENED AT THE CHEMICAL PLANT IN GEISMAR, LA. THERE HAVE BEEN AN UNKNOWN AMOUNT OF INJURIES THAT HAVE OCCURRED AS A RESULT OF THE EXPLOSION. BY 0930 LA 74, LA 30 AND LA 3115 HAVE BEEN CLOSED. LOCAL AUTHORITIES ARE ON SCENE.

INCIDENT DETAILS

Package: NO

Building ID:

Type of Fixed Object: CHEMICAL FACILITY

Power Generating Facility: NO

Generating Capacity:

Type of Fuel:

NPDES:

NPDES Compliance: UNKNOWN

DAMAGES

Fire Involved: YES Fire Extinguished: UNKNOWN

INJURIES: UNKN Hospitalized: Empl/Crew: Passenger:

FATALITIES: UNKN Empl/Crew: Passenger: Occupant:

EVACUATIONS: YES Who Evacuated: Radius/Area:

Damages: NO

<u>Closure Type</u>	<u>Description of Closure</u>	<u>Length of Closure</u>	<u>Direction of Closure</u>
Air:	N		
Road:	Y LA74, LA30, LA3115		Major Artery: N
Waterway:	N		

Track: N

Passengers Transferred: NO

Environmental Impact: UNKNOWN

Media Interest: HIGH Community Impact due to Material:

REMEDIAL ACTIONS

Release Secured: UNKNOWN

Release Rate:

Estimated Release Duration:

WEATHER

Weather: UNKNOWN, °F

ADDITIONAL AGENCIES NOTIFIED

Federal: EPA

State/Local: LOCAL AUTHORITIES, DEQ

State/Local On Scene: LOCAL AUTHORITIES

State Agency Number:

NOTIFICATIONS BY NRC

CALCASIEU PARISH SHERIFF'S DEPT (CRIMINAL INTELLIGENCE UNIT)

13-JUN-13 11:14

CHEM SAFETY AND HAZARD INVEST BOARD (CSB AUTOMATIC NOTIFICATIONS)

13-JUN-13 11:14

DOT CRISIS MANAGEMENT CENTER (MAIN OFFICE)

13-JUN-13 11:14

U.S. EPA VI (MAIN OFFICE)

13-JUN-13 11:20

FBI LOUISIANA ATN: HILLARY ROSSMAN (MAIN OFFICE)

13-JUN-13 11:14

FBI LOUISIANA ATN: HILLARY ROSSMAN (LAKE CHARLES)

13-JUN-13 11:14

FBI NEW ORLEANS FIELD OFC (MAIN OFFICE)

13-JUN-13 11:14

FBI STRATEGIC INFO OPERATIONS CNTR (MAIN OFFICE)

13-JUN-13 11:20

FLD INTEL SUPPORT TEAM NEW ORLEANS (SUPERVISOR, FIST NEW ORLEANS)

13-JUN-13 11:14

USCG NATIONAL COMMAND CENTER (MAIN OFFICE)

13-JUN-13 11:20

JFO-LA (COMMAND CENTER)

13-JUN-13 11:14

JFO-LA (FEMA JFO LA)

13-JUN-13 11:14

LA DEPT OF ENV QUAL (MAIN OFFICE)

13-JUN-13 11:14

LA DEPT OF NATURAL RESOURCES (OFFICE OF CONSERVATION)

13-JUN-13 11:14

LA DEPT OF WILDLIFE AND FISHERIES (MAIN OFFICE)

13-JUN-13 11:14

LA GOV OFFICE HS AND EMERGENCY PREP (MAIN OFFICE)

13-JUN-13 11:14

LA OFFICE OF GOV (MAIN OFFICE)

13-JUN-13 11:14

LA OFFICE OF PUBLIC HEALTH (MAIN OFFICE)

13-JUN-13 11:14

NATIONAL INFRASTRUCTURE COORD CTR (MAIN OFFICE)

13-JUN-13 11:14

NOAA RPTS FOR LA (MAIN OFFICE)

13-JUN-13 11:14

NATIONAL RESPONSE CENTER HQ (MAIN OFFICE)

13-JUN-13 11:20
NATIONAL RESPONSE CENTER HQ (AUTOMATIC REPORTS)
13-JUN-13 11:14
NRC SENIOR WATCH OFFICER (SWO)
13-JUN-13 11:33
NTSB PIPELINE (MAIN OFFICE)
13-JUN-13 11:14
HOMELAND SEC COORDINATION CENTER (MAIN OFFICE)
13-JUN-13 11:14
ORLANDO INTNL AIRPORT TSA/DHS (INCIDENT MANAGEMENT CENTER)
13-JUN-13 11:14
PIPELINE & HAZMAT SAFETY ADMIN (OFFICE OF PIPELINE SAFETY (AUTO))
13-JUN-13 11:14
PIPELINE & HAZMAT SAFETY ADMIN (OFFICE OF PIPELINE SAFETY WEEKDAYS (AUTO2))
13-JUN-13 11:14
SECTOR NEW ORLEANS (MSU BATON ROUGE)
13-JUN-13 11:14
LA STATE POLICE (MAIN OFFICE)
13-JUN-13 11:14
LA STATE POLICE (ANALYTICAL AND FUSION EXCHANGE)
13-JUN-13 11:14
MSU BATON ROUGE (MAIN OFFICE)

13-JUN-13 11:14
USCG DISTRICT 8 (MAIN OFFICE)
13-JUN-13 11:14

ADDITIONAL INFORMATION

THIS REPORT WAS GENERATED BY THE NRC WATCHSTANDER VIA NEWS MEDIA SOURCES

*** END INCIDENT REPORT # 1050286 ***

ATTACHMENT G

SITE LOGBOOK



"Rite in the Rain"

ALL-WEATHER
JOURNAL

No. 391

WILLIAMS OLEFINS EXPLOSION

Project _____

DATE _____

6-13-2013

1026 START-3 ACTIVATED BY EPA TO RESPOND TO AN EXPLOSION AT THE WILLIAMS OLEFIN PLANT IN GEISMAR, LA. BRANDON SPEAKING TO OSC JOHN ANDONS. ROBERT SHORMAN AND ERIC BAY WILL RESPOND

1045 START SHORMAN SPEAKING WITH LDCR TRAVIS LAURENT AT THE SCENE. HE SAYS TO APPROACH VIA LA HWY 73 TO LA 30 LAURENT: 225-910-1260. REPORTS THAT THE FIRE WAS ETHYLENE + PROPYLENE.

1115 START SHORMAN + BY DEPT OFFICE FOR GEISMAR, WILL MEET LDCR + OSC JOHN MARTIN WHO IS FLYING IN.

1147 MORNING LDCR TRAVIS LAURENT + KEVIN BORNE ON-THEIR AIR MONITORING RUN. THEY ASSESS ALL NON-DIRECT SO FAR

1203 START-3, LDCR AT ICP AREA, LA 30 + LA 3115. SMOKE IS COMING OUT OF A STACK. REPORTED PROPYLENE BURNING. LINES HAVE REPORTEDLY BEEN CUT OFF, NO DOME MATERIAL BURNING. REPORTEDLY THE EXPLOSION WAS IN THE BOILER AREA. 15 LOST ONE FATALITY. WINDS NW 6 MPH, 89°F PARTLY CLOUDY, BUT MOSTLY SUNNY

12A

6-13-2013

1229 STARTS CHEZICIN WITH STATE POLICE. CAPT WILLIAM DAVIS. THEY HAVE NO NEEDS OTHER THAN AIR MONITORING. IC WILL BE CAPT TAYLOR MOSS.

1233 SPEAKING WITH BRANDON LITIGOE - WILLIAMS ENVIRONMENTAL DEPT. REPORTS THAT MATERIAL BURNING IS ALL OVER TO THE FLAME, BUT NO POWER TO CONTROL FLAME AND FEED LINE, SO MUCH BLACK SMOKE. ALSO REPORTS THAT THE STORMWATER SYSTEM IS OVERWHELMED, SO FIREWATER IS FLOWING OFFSITE.

1250 OSC JOHN MARTIN CALLS. REPORTS THAT HE IS AT AIRPORT, 130 FLIGHT, ARRIVES IN B.R. AT 4 PM. UPDATED HIM ON THE SITUATION. HE ASKED ABOUT INSULATION BEING BLOWN OFFSITE. WILL CHECK WITH WILLIAMS REP.

LATE ENTRY: WILLIAMS REP BRANDON LITIGOE REPORTS THAT ONLY HYDROCARBONS C4 + LESS ON-SITE. SOME CHLORINE ON-SITE ASSOCIATED WITH THE COOLING TOWER, BUT AWAY FROM THE FIRE + EXPLOSION.

6-13-2013

1315 TAKING PH AT DITCH AT LA 3115 & LA 30. PH IS S-6. WILLIAMS REP DOUG BROWN, FORMER ENV. MANAGER. STATES THAT HE MADE ADDITIONALS TO LSP + OCPs AT 13 AS SOON AS HE HEARD THIS BROWN.

1330 START SPEAKING WITH OSC ENDERS, UPDATING SITUATION.

1345 LWS LITIGOE STATES THAT NO BESTOS INSULATION IN THE PLANT. NO MATERIAL BELIEVED TO HAVE BEEN BLOWN OUTSIDE OF FENCELINE. BROWN STATES THAT THE RUN OFF WATER WAS INCREASED COOLING WATER FROM MISS. RIVER, BUT THEY THINK THAT HAS BEEN CUT OFF. ALSO STATED THAT FREQUENTLY IS NOSEY WILLIAMS PERSONNEL. SAID THAT A TEAM IS ENTERING THE PLANT TO DO AIR MONITORING.

1400 NOTE: LADER HAS MENTIONED THAT THEY MAY WANT START TO TAKE OVER AIR MONITORING IN THE EVENING. LADER IS CONCERNING SUMMIT CAMISTONS. MAMC IS SET UP ON LA 73 NEAR LA 30

6-13-2013

1420 CHRIS HERRINGTON OF OSHA IN BAY AREA ROUTE IS ON-SITE. WILL DO INVESTIGATION 1500 SHERMAN HAS SPEECH WITH OSC FOUR MATTER, UPDATES HIM ON SITUATION. LADER PETE RICCA HAS ASKED IF START CAN TAKE OVER AIR MONITORING FOR THE NIGHT SHIFT. START SHERMAN DIRECTED HIM TO EPA TO GET THAT TASKING.

1512 SHERMAN SPEAKING WITH LSP CAPT DAVIS. REPORTS THAT ENTRY TEAM IN PLANT GAVE ALL CLEAR. CREWS ARE WORKING TO GET GENERATION POWER BACK TO PLANT. COMMAND POST WILL BE MOVED FORWARD EXPECTS LA 30 TO BE OPENED WITHIN AN HOUR.

1545 COMMAND POST MOVED UP TO THE PARKING LOT AT WILLIAMS OILFIELD

1612 LSP REPORTS HIGHWAY 30 IS OPEN. ONLY HWY 3115 IS ~~STILL~~ CLOSED, BETWEEN LA 30 + LA 75 (RIVER ROAD)

1615 START BAY RIDING WITH LADER ON AIR MONITORING RUN. EPA HAS APPROVED START DOING AIR MONITORING FOR LADER OVERNIGHT

6-13-2013

1700 BRIEFING MEETING. WAS REVIEWING WHAT HAVE BEEN ISOLATING EVERYTHING THEY CAN. ISOLATING ELECTRICITY ON ALL BRANCHES. PROTECTS GTS LOOKING OUT OF DAMAGED SALES VALVE ON FRANGE. FIRE MONITORS ON IT, VERY SMALL AMT OF GTS. BEING DISPOSED BY FIRE MONITORS. LEAK IN N₂ PIPES NEAR THE FIRE. PROTECTS PROTECTS FRACTIONATION REBOILER AREA W/TS EXPLOSION. INSTRUMENTATION CONSIST NOT WORKING, SO ALL OBSERVATIONS VISUAL. 0837 IS WHEN EXPLOSION OCCURRED.

CONCERNS: LEAK, ELECTRICAL

SHORTCUT-IN-PLACE STILL IN PLACE TO NOW, BUT WILL BE LIFTED NOW - (4 NEIGHBORING PLANTS)

1800 MEETING OVER. SPEAKING ON PHONE WITH OSC ENDS + WILLIAMS DOUG BROWN, UPDATING ME ON SITUATION

1820 OSC MAINTAIN ON SITE

1900 OSC MAINTAIN SHERMAN MEETING WITH BROWN. START BM ON AIR MONITORING RUN WITH LDED PERSONNEL

1930 SHERMAN + MAINTAIN AT CONF ROOM FOR BRIEFING

RTJ

6-13-2013

2006 AIRCRAFT STARTING, E-BAY BACK FROM AIR MONITORING RUN, NO READINGS.

WILLIAMS DISCUSSING NIGHT OPERATIONS -

NOBODY DOING ANYTHING NEAR THE BLAST AREA
2025 LDED, BAY DEPARTING FOR AROUND
AIR MONITORING RUN

2105 SHERMAN + MAINTAIN AT LDED MAINT TO CHECK OIL, ETC.

2200 SHERMAN DRAFTING POLICY

2220 BAY OFF FOR AIR MONITORING RUN
OSC MAINTAIN GOING TO HOME

RTJ

6-14-2013

0005 START DAVID BURSON + JEFF WRIGHT
ON SITE TO RELIEVE SHERMAN + BAY

0030 START BURSON CONDUCTS SITE SAFETY
MEETING

CHEMICAL - PROPYLENE, ETHYLENE, VOC

PHYSICAL - SLIPS, TRIPS, FALLS, TRAFFIC

BIOLOGICAL - STINGING INSECTS

WEATHER: Winds W 0-5 mph, Humid 85%, 81°, CLEAR

CONDUCT DEBRIEFING W/ SHERMAN + BAY.

0040 DEPART LDEQ MAML TO CONDUCT
AIR MONITORING.

0055 COLLECT A-01 READINGS

0108 COLLECT A-02 READINGS

0113 COLLECT A-03 READINGS, COLLECT 2 SUMMA CANS

0118 COLLECT A-04 READINGS

0121 COLLECT A-05 READINGS

0125 COLLECT A-06 READINGS

0130 COLLECT A-07 READINGS

0133^{DB} COLLECT A-08 READINGS

0138 COLLECT A-09 READINGS

0143 COLLECT A-10 READINGS

0210 RETURN TO LDEQ MAML. REQUEST
SUMMA CANNISTERS TO LDEQ. ENTER
DATA INTO SPREADSHEET.

6/14/13

0240 DEPART LDEQ MAML TO CONDUCT
AIR MONITORING.

0258 COLLECT A-01 READINGS

0259 COLLECT A-02 READINGS

0302 COLLECT A-03 READINGS

0305 COLLECT A-04 READINGS

0308 COLLECT A-05 READINGS

0311 COLLECT A-06 READINGS

0313 COLLECT A-07 READINGS

0316 COLLECT A-08 READINGS

0321 COLLECT A-09 READINGS

0326 COLLECT A-10 READINGS

0340 RETURN TO LDEQ MAML. NO

AIR MONITOR READINGS ABOUT

BACKGROUND. ENTER DATA INTO

SPREADSHEET, ENTER BACKLOG DATA.

0445 DEPART LDEQ MAML TO CONDUCT

AIR MONITORING AND COLLECT 2

SUMMA CANNISTERS FOR LDEQ.

0455 COLLECT A-01 READINGS

0458 COLLECT A-02 READINGS, COLLECT 2 SUMMA CANNISTERS

0502 COLLECT A-03 READINGS

0506 COLLECT A-04 READINGS

0508 COLLECT A-05 READINGS

0512 COLLECT A-06 READINGS

6/14/13

Williams Ocean

0513 Collect A-07 READINGS
 0515 Collect A-08 READINGS
 0521 Collect A-09 READINGS
 0526 Collect A-10 READINGS
 0550 Return to LDEQ MAMC. ENTER INFORMATION

INTO SPREADSHEET.

0650 DEPART MAMC TO ATTEND STATUS
 BRIEFING AT WILLIAMS OFFICE.

0710 EPA OSC JOHN MARTIN AND START
 AT WILLIAMS OFFICE FOR 0730 MEETING.
 PROVIDED MARTIN WITH A DEBRIEF FROM
 OVERNIGHT OPERATIONS.

0730 BEGIN STATUS MEETING, IN ATTENDANCE:
 LDEQ, OSHA, WILLIAMS ATTORNEYS, WILLIAMS
 PERSONNEL, AND ASCENSION PARISH DHS,
 AND LSP. → TRAVIS DAY

- Williams conducted AIR MONITORING FOR
 LEL ALONG 3115 AND HWY 30, SUBCONTRACTOR
 PULLING SUMMA CEMENTS NEAR RESIDENCE
 AREAS. NO HES FOR LEL, LOW LEVELS FOR
 VOCs at GOOD DB 2130, NOTHING SERIOUS.

- ONLY MATERIAL CURRENTLY RELEASED IS
 FROM RESIDUAL PAVEMENT VAPORIZING
 NEAR DAMAGED FLANGE, FLANGE HAS
 POWER AND BURNING CLEARLY.

D. B. B.

6/14/13

Williams Ocean

- WILLIAMS WILL HAVE SUBCONTRACTORS
 ON SITE TO RETRIEVE VEHICLES & PERSONAL
 BELONGINGS, MAKE REPAIRS, AND SECURE
 EQUIPMENT, ALSO MOVING A TANK
 WITH PRODUCTS

- LSP IS GOING TO OPEN 3115, WILLIAMS
 APPROVES OPENING. LSP WANTS WILLIAMS
 TO CONTINUE AIR MONITORING.

0830 Co-LEADER STATUS MEETING. WILLIAMS
 DOUG BADON TAKES START AND
 LDEQ ON ASSESSMENT WALK THROUGH
 OF PLANT TO LOOK AT FIRE FIGHTER
 WATER WHICH HAS POOLED ON SITE
 AND DO A VISUAL DETERMINATION TO
 SEE IF PROCESS WATER HAS BEEN
 RELEASED. NO EVIDENCE OF SIGNIFICANT
 SPILLING WHICH WOULD INDICATE PROCESS
 WATER RELEASE. FIRE FIGHTER WATER IS
 UNCONTAINED ON THE NE CORNER OF THE
 PROPERTY, RUNNING OFFSITE INTO DRAINAGE
 DITCH. BADON SAYS THAT DUE TO
 LACK OF ELECTRICITY, CANNOT OPERATE
 LEFT PUMPS AT FACILITY SUMPS.
 FACILITY IS STILL APPLYING WATER TO
 DAMAGED FLANGE TO "KNOCK DOWN"

D. B. B.

6/14/13

WILLIAMS OLEFINS

PROPYLENE VAPOR.

1000. COMPLETE FACILITY WALK THROUGH. RETURN TO MAMC COLLECT BELONGINGS AND COLLECT SUMMA CANISTER LOC'S.

1030 RETURN TO WILLIAMS OFFICE FOR STATUS MEETING. IN ATTENDANCE:

- LDER - RECCA, NOLAN, LAURENT
- LSP TRAVIS DAY
- Williams, EPA, OSHA, ASCESSION PANGA DAS.

HWY 3115 OPEN, TOTAL SAFETY IS UPLOADED AIR MONITORING DATA, FLARE IS FULLY OPERATIONAL, WORKERS ARE BEING BUDED IN TO COLLECT BELONGINGS, WATER CANNON HAS BEEN TURNED OFF, FLARE IS NO LONGER EMITTING VAPORS, NO HAZ ON ANY AIR MONITORING.

1100 LSP RELEASES THE SITE TO WILLIAMS. EPA NOTIFIES WILLIAMS THAT EPA ASSETS WILL DEMOBILIZE. ADVISES WILLIAMS TO CONTINUE AIR MONITORING. LDER WILL CONTINUE TO COORDINATE WITH WILLIAMS REGARDING AIR MONITORING.

DBZ

6/14/13

WILLIAMS OLEFINS

AND WATER DISCHARGES.

1115 START DEMOBILIZATION. WILL RETURN TO OFFICE TO COMPLETE FINAL POLREP.

1230 RETURN TO BATON ROUGE OFFICE BEGIN COMPLETE FINAL POLREP AND UNLOADING TRUCK.

DBZ

ATTACHMENT H

TDD NO. 1/WESTON-042-13-020 AND AMENDMENTS

U.S. EPA, Region 6
1445 Ross Avenue, Suite 1200
Dallas, TX 75202-2733

TDD #: 1/WESTON-042-13-020

Amendment #:

Contract #: EP-W-06-042

Vendor: WESTON SOLUTIONS, INC.

TDD Title: Williams Olefin Plant Explosion

Verbal Date: 06/13/2013

Purpose: TDD INITIATION

Start Date: 06/13/2013

Completion Date: 09/20/2013

Effective Date: 06/13/2013

Priority: HIGH

Overtime Authorized: Yes

Invoice Unit:

SSID: A6HH

Work Area: Response / Removal

Project/Site Name: Williams Olefin Plant Explosion

Work Area Code:

Project Address: 5205 HWY 3115

Activity: Fund Lead Removal

County: Ascension

Activity Code: RV

City: Geismar

Operable Unit:

State: LA

Emergency Code:

Zip Code: 70734

FPN:

Performance Based: No

Authorized TDD Ceiling:

	Amount	LOE (Hours)
Previous Action(s):	\$0.00	0.00
This Action:	\$9,000.00	0.00
New Total:	\$9,000.00	0.00

Specific Elements:

Analyze -Data that has been collected.,Collect -Samples
,Document -The removal activities. Prepare a written

Description of Work:

See Schedule

Region Specific:

CERCLIS:

Misc 2:

Accounting and Appropriation Information:

SFO:

Line	Budget / FY	Approp. Code	Budget Org.	Program Element	Object Class	Site Project	Cost Org.	DCN Line-ID	Funding Category	TDD Amount
1	13	T	6A00	303DC6	2505	A6HHRV00		136ARVC012-001	REMOVAL	\$9,000.00

U.S. EPA, Region 6
1445 Ross Avenue, Suite 1200
Dallas, TX 75202-2733

TDD #: 1/WESTON-042-13-020

Amendment #:

Contract #: EP-W-06-042

Vendor: WESTON SOLUTIONS, INC.

Project Officer : Linda Carter _____ (Signature) _____ (Date)	Branch Mail Code: Phone Number : 214-665-6665 Fax Number : 214-665-6660
Contracting Officer Representative : John Martin _____ (Signature) _____ (Date)	Branch Mail Code : Phone Number : 214-665-6748 Fax Number :
Contract Specialist: Cora Stanley _____ (Signature) _____ (Date)	Branch Mail Code : Phone Number : 214-665-7464 Fax Number :
Contracting Officer : Cora Stanley Electronically Signed by Cora Stanley 07/09/2013 _____ (Signature) _____ (Date)	Branch Mail Code : Phone Number : 214-665-7464 Fax Number :
Other Agency Official : _____ (Signature) _____ (Date)	Branch Mail Code : Phone Number : Fax Number :

Description of Work: Mobilized to this plant fire/explosion to assess and support emergency response activities. Conduct air monitoring and sampling, draft POLREP, photodocument, and maintain logbook.

TDD is funded at \$9,000.

U.S. EPA, Region 6
1445 Ross Avenue, Suite 1200
Dallas, TX 75202-2733

TDD #: 1/WESTON-042-13-020

Amendment #: 001

Contract #: EP-W-06-042

Vendor: WESTON SOLUTIONS, INC.

TDD Title: Williams Olefin Plant Explosion

Verbal Date: 06/13/2013

Purpose: TDD INITIATION

Start Date: 06/13/2013

Completion Date: 09/20/2013

Effective Date: 06/13/2013

Priority: HIGH

Overtime Authorized: Yes

Invoice Unit:

SSID: A6HH

Work Area: Response / Removal

Project/Site Name: Williams Olefin Plant Explosion

Work Area Code:

Project Address: 5205 HWY 3115

Activity: Fund Lead Removal

County: Ascension

Activity Code: RV

City: Geismar

Operable Unit:

State: LA

Emergency Code:

Zip Code: 70734

FPN:

Performance Based: No

Authorized TDD Ceiling :

	Amount	LOE (Hours)
Previous Action(s) :	\$9,000.00	0.00
This Action :	\$3,000.00	0.00
New Total :	\$12,000.00	0.00

Specific Elements :

See Schedule

Description of Work :

See Schedule

Region Specific :

CERCLIS:

Misc 2 :

Accounting and Appropriation Information:

SFO:

Line	Budget / FY	Approp. Code	Budget Org.	Program Element	Object Class	Site Project	Cost Org.	DCN Line-ID	Funding Category	TDD Amount
1	13	T	6A00	303DC6	2505	A6HHRV00		136ARVC010-001	REMOVAL	\$3,000.00

U.S. EPA, Region 6
1445 Ross Avenue, Suite 1200
Dallas, TX 75202-2733

TDD #: 1/WESTON-042-13-020

Amendment #: 001

Contract #: EP-W-06-042

Vendor: WESTON SOLUTIONS, INC.

Project Officer : Linda Carter _____ (Signature) _____ (Date)	Branch Mail Code: Phone Number : 214-665-6665 Fax Number : 214-665-6660
Contracting Officer Representative : John Martin _____ (Signature) _____ (Date)	Branch Mail Code : Phone Number : 214-665-6748 Fax Number :
Contract Specialist: Cora Stanley _____ (Signature) _____ (Date)	Branch Mail Code : Phone Number : 214-665-7464 Fax Number :
Contracting Officer : Cora Stanley Electronically Signed by Cora Stanley 07/12/2013 _____ (Signature) _____ (Date)	Branch Mail Code : Phone Number : 214-665-7464 Fax Number :
Other Agency Official : _____ (Signature) _____ (Date)	Branch Mail Code : Phone Number : Fax Number :

Specific Elements:

Base ORIG - Analyze -Data that has been collected.,Collect -Samples
,Document -The removal activities. Prepare a written
report.,Support -The removal activities

Description of Work:

Amendment 001 - AMENDMENT A: additional funding of \$3000 required to complete final report.
Base ORIG - Mobilized to this plant fire/explosion to assess and support
emergency response activities. Conduct air monitoring and
sampling, draft POLREP, photodocument, and maintain logbook.

TDD is funded at \$9,000.

U.S. EPA, Region 6
1445 Ross Avenue, Suite 1200
Dallas, TX 75202-2733

TDD #: 1/WESTON-042-13-020

Amendment #: 002

Contract #: EP-W-06-042

Vendor: WESTON SOLUTIONS, INC.

TDD Title: Williams Olefin Plant Explosion

Verbal Date: 06/13/2013

Purpose: TDD AMENDMENT FOR ADDITIONAL FUNDING

Start Date: 06/13/2013

Completion Date: 09/20/2013

Effective Date: 06/13/2013

Priority: HIGH

Overtime Authorized: Yes

Invoice Unit:

SSID: A6HH

Work Area: Response / Removal

Project/Site Name: Williams Olefin Plant Explosion

Work Area Code:

Project Address: 5205 HWY 3115

Activity: Fund Lead Removal

County: Ascension

Activity Code: RV

City: Geismar

Operable Unit:

State: LA

Emergency Code:

Zip Code: 70734

FPN:

Performance Based: No

Authorized TDD Ceiling :

	Amount	LOE (Hours)
Previous Action(s) :	\$12,000.00	0.00
This Action :	\$3,000.00	0.00
New Total :	\$15,000.00	0.00

Specific Elements :

See Schedule

Description of Work :

See Schedule

Region Specific :

CERCLIS:

Misc 2 :

Accounting and Appropriation Information:

SFO:

Line	Budget / FY	Approp. Code	Budget Org.	Program Element	Object Class	Site Project	Cost Org.	DCN Line-ID	Funding Category	TDD Amount
1	11	T	6A00	303DC6	2505	A6HRV00	C001	126ARVC030-001	REMOVAL	\$3,000.00

U.S. EPA, Region 6
1445 Ross Avenue, Suite 1200
Dallas, TX 75202-2733

TDD #: 1/WESTON-042-13-020

Amendment #: 002

Contract #: EP-W-06-042

Vendor: WESTON SOLUTIONS, INC.

Project Officer : Linda Carter _____ (Signature) _____ (Date)	Branch Mail Code: Phone Number : 214-665-6665 Fax Number : 214-665-6660
Contracting Officer Representative : John Martin _____ (Signature) _____ (Date)	Branch Mail Code : Phone Number : 214-665-6748 Fax Number :
Contract Specialist: Cora Stanley _____ (Signature) _____ (Date)	Branch Mail Code : Phone Number : 214-665-7464 Fax Number :
Contracting Officer : Cora Stanley Electronically Signed by Cora Stanley 07/19/2013 _____ (Signature) _____ (Date)	Branch Mail Code : Phone Number : 214-665-7464 Fax Number :
Other Agency Official : _____ (Signature) _____ (Date)	Branch Mail Code : Phone Number : Fax Number :

Specific Elements:

Base ORIG - Analyze -Data that has been collected.,Collect -Samples
,Document -The removal activities. Prepare a written
report.,Support -The removal activities

Description of Work:

Amendment 002 - Add additional \$3,000 to TDD to complete the final report.

Amendment 001 - AMENDMENT A: additional funding of \$3000 required to complete final report.

Base ORIG - Mobilized to this plant fire/explosion to assess and support
emergency response activities. Conduct air monitoring and
sampling, draft POLREP, photodocument, and maintain logbook.

TDD is funded at \$9,000.